

SEQUENCE LISTING

- (1) GENERAL INFORMATION:
- (i) APPLICANT: Yoram Reiter
- (ii) TITLE OF INVENTION: SINGLE CHAIN CLASS I MAJOR HISTO-COMPATIBILITY COMPLEXES, CONSTRUCTS ENCODING SAME AND METHODS OF GENERATING SAME
- (iii) NUMBER OF SEQUENCES: 20
- (iv) CORRESPONDENCE ADDRESS:
- (A) ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
- (B) STREET: 2001 Jefferson Davis Highway, Suite 207
- (C) CITY: Arlington
- (D) STATE: Virginia
- (E) COUNTRY: United States of America
- (F) ZIP: 22202
- (v) COMPUTER READABLE FORM:
- (A) MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
- (B) COMPUTER: Twinhead* Slimnote-890TX
- (C) OPERATING SYSTEM: MS DOS version 6.2, Windows version 3.11
- (D) SOFTWARE: Word for Windows version 2.0 converted to an ASCII file
- (vi) CURRENT APPLICATION DATA:
- (A) APPLICATION NUMBER:
- (B) FILING DATE:
- (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
- (A) APPLICATION NUMBER:
- (B) FILING DATE:
- (viii) ATTORNEY/AGENT INFORMATION:
- (A) NAME: Friedman, Mark M.
- (B) REGISTRATION NUMBER: 33,883
- (C) REFERENCE/DOCKET NUMBER: 74/92
- (ix) TELECOMMUNICATION INFORMATION:
- (A) TELEPHONE: 972-3-5625553
- (B) TELEFAX: 972-3-5625554
- (C) TELEX:
- (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 9
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
- Ile Met Asp Gln Val Pro Phe Ser Val
5
- (2) INFORMATION FOR SEQ ID NO:2:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 9
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
- Tyr Leu Glu Pro Gly Pro Val Thr Val
5
- (2) INFORMATION FOR SEQ ID NO:3:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 9
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
- Leu Leu Phe Gly Tyr Pro Val Tyr Val
5
- (2) INFORMATION FOR SEQ ID NO:4:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 1248
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
- ATGATCCAGC GTACTCCAAA GATTGAGTT TACTCAGCT ATCCAGCAGA 50
GAATGGAAAG TCAAAATTTC TGAATTGCTA TGTGTCTGGG TTTCATCCAT 100
CCGACATTGA AGTTGACTTA CTGAAGAATG GAGAGAGAA TGAAGAAGTG 150
GAGCATTCAG ACTCTTTT CAGCAGAGAC TGGCTTTTCT ATCTTTGTA 200
TTTACTGAG TTACACCCCA CTGAAGAAGA TGAGTATGCC TGCCGTGTGA 250

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ACCACGTGAC TTTGTCACAG CCCAAGATAG TTAAGTGGGA TCGAGACATG 300
GGTGGCGGTG GAAGCGCGGG TGGAGGCTCT GGTGGAGGTG GCACGCGGTG 350
TCATCTCATG AGGTAATTTG TCACATCCGT CTCGCCGCGC GGCCGCGGG 400
AGCCCGCGTT CATTCGAGTG GCGTACGTGG ACAGACACGA GTTCGTGCGG 450
TTTGACAGCG AGCCGCGGAG CCGAGAGGATG GAGCCGCGGG CGCGTGGAT 500
AGAGCAGGAG GGTCCGGAGT ATTGGGACGG GAGACACCGG AAGGTGAAG 550
CCCCTACACA GACTACACGA GTGGACCTGG GGACCTTGGG CGGCTACTAC 600
AACCAGAGCG AGCCGCGTTC TCACACCGTC CAGAGGATGT AAGCTGCGA 650
CGTGGGCTCG GACTCGGGCT TCCTCCGCGG GTACACACAG TACGCTACG 700
ACGGCAAGGA TTACATCGCC CTGAAGAGG ACCTGCGGTC TTGACCGGG 750
GCGGACATGG CAGCTCAGAC CACCAAGCAC AAGTGGGAGG CGGCCCATGT 800
GGCGGAGCAG TTGAGAGGCT ACCTGGAGGG CACGTGCGTG GAGTGGCTCC 850
GAGATACCTT GGAGAACGGG AAGGAGACGC TGCAGCGCAC GGACGCGCC 900
AAACGACACA TGACTACACA CGCTGTCCTT GACCATGAAG CCACCTGAG 950
GTGCTGGGCC CTGAGTTTCT ACCTCGCGGA GATCACATCG ACCTGGCAG 1000
GACTTTGGAG GAATCTTTGA GGCAATGAG ATGGAGCTGC GGGACTGA 1248

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(2) INFORMATION FOR SEQ ID NO:5:

(1) SEQUENCE CHARACTERISTICS:

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(R) LENGTH: 415
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

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Met Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro
15
Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly
20
Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu
35
Arg Ile Glu Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp
50
Trp Ser Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu
65
Lys Asp Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser Gln
80
Pro Lys Ile Val Lys Trp Asp Arg Asp Met Gly Gly Gly Gly Ser
95
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Ser His Ser Met
110
Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro
125
Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg
140
Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg Ala Pro
155
Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gly Glu Thr Arg
170
Lys Val Lys Ala His Ser Gln Thr His Arg Val Asp Leu Gly Thr
185
Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Val
200
Gln Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp Arg Phe Leu
215
Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala
230
Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala
245
Gln Thr Thr Lys His Lys Trp Glu Ala Ala His Val Ala Glu Gln
260
Leu Arg Ala Tyr Glu Glu Gly Thr Cys Val Glu Trp Leu Arg Arg
275
Tyr Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr Asp Ala Pro
290
Lys Thr His Met Thr His His Ala Val Ser Asp His Glu Ala Thr
305
Leu Arg Cys Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr Leu
320
Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu
335
Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala
350
Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg Tyr Thr Cys His
365
Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu Arg Trp Glu
380
Gln Ser Thr Arg Gly Gly Ala Ser Gly Gly Gly Leu Gly Gly Ile
395
Phe Glu Ala Met Lys Met Glu Leu Arg Asp
410
415

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(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 290
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro 15
 5 10
 Gly Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp 15
 20 25
 Thr Gln Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met 30
 35 40
 Glu Pro Arg Ala Phe Trp Ile Glu Gln Gln Gly Pro Glu Tyr Trp 45
 50 55
 Asp Gly Glu Thr Arg Lys Val Lys Ala His Ser Gln Thr His Arg 60
 65 70
 Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala 75
 80 85
 Gly Ser His Thr Val Gln Arg Met Tyr Gly Cys Asp Val Gly Ser 90
 95 100
 Asp Trp Arg Phe Leu Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly 105
 110 115
 Lys Asp Tyr Ile Ala Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala 120
 125 130
 Ala Asp Met Ala Ala Gln Thr Thr Lys His Lys Trp Glu Ala 135
 140 145
 His Val Ala Glu Gln Leu Arg Ala Tyr Leu Glu Gly Thr Cys Val 150
 155 160
 Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys Glu Thr Leu Gln 165
 170 175
 Arg Thr Asp Ala Pro Lys Thr His Met Thr His His Ala Val Ser 180
 185 190
 Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe Tyr Pro 195
 200 205
 Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr 210
 215 220
 Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr 225
 230 235
 Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln 240
 245 250
 Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu 255
 260 265
 Thr Leu Arg Trp Glu Gln Ser Thr Arg Gly 270
 275 280
 285 290

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Met Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro 15
 5 10
 Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly 15
 20 25
 Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu 30
 35 40
 Arg Ile Glu Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp 45
 50 55
 Trp Ser Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu 60
 65 70
 Lys Asp Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser Gln 75
 80 85
 Pro Lys Ile Val Lys Trp Asp Arg Asp Met 90
 95 100

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 36
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

AGGAGATATA CATATGGGCT CTAATCCAT GAGGTA 36

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 43

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
 CGGGCTTTGT TAGCCAGGTAT TCATAGGTGA GGGGCTTGGG CAA 43

(2) INFORMATION FOR SEQ ID NO:10:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 15
 5 10

(2) INFORMATION FOR SEQ ID NO:11:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 35
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
 GGAGATATAC ATATGATCCA GCGTACTCCA AAGAT 35

(2) INFORMATION FOR SEQ ID NO:12:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 49
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
 CGGGCTTTGT TAGCAGCGCA ATTCATTACA TGTCTCGATC CCACTTAAC 49

(2) INFORMATION FOR SEQ ID NO:13:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 41
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
 GGAAGCGGTT GCGCATATG ATCCAGCGTA CTCCAAAGAT T 41

(2) INFORMATION FOR SEQ ID NO:14:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
 GGAAGCGGCG GTGAGGGCTC TGGTGGAGGT GGCAGCGGCT CTCACGCCAT 50
 GA 52

(2) INFORMATION FOR SEQ ID NO:15:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
 GGAAGCGGCG GTGAGGGCTC TGGTGGAGGT GGCAGCGGCT CTCACGCCAT 50
 GA 52

(2) INFORMATION FOR SEQ ID NO:16:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 43
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
 GGGAGATTTC TTACTCCCAT CTCAGGGTGA GGGGCTTGGG CAA 43

(2) INFORMATION FOR SEQ ID NO:17:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
 Leu Gly Gly Ile Phe Glu Ala Met Lys Met Glu Leu Arg Asp

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(2) INFORMATION FOR SEQ ID NO:18:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (x1) SEQUENCE DESCRIPTION: SEQ ID NO:18:
 Gln Ser Thr Arg Gly Gly Ala Ser Gly Gly Gly
 5 10

(2) INFORMATION FOR SEQ ID NO:19:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 100
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (x1) SEQUENCE DESCRIPTION: SEQ ID NO:19:
 CAGTAAAGC TTTTATCAG CTCGGAAC GTGGATGCTT CCACGCCGAA 50
 CCTCCACCAG AACCACTCG GGACCGGCA CTCCTTCC ATCTCAGGT 100

(2) INFORMATION FOR SEQ ID NO:20:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 39
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 (x1) SEQUENCE DESCRIPTION: SEQ ID NO:20:
 GGAATCTTTG AGGCAATGAA GATGGAGCTG CGGGACTGA 39

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